

JUN 25 2002

GROUP 1600

WILHELM F. MAIER ET AL.
USSN 09/582,116IN THE CLAIMS:

Amend claims 1, 4, 7-10 and 12-15 as follows:

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--1. (Twice Amended)

A method for the comparative determination of the heat changes caused by physical or chemical processes performed with the aid of catalysts arranged in the form of a catalyst library over the surface of a library plate, wherein a difference image is recorded using an infrared camera, wherein said image is obtained by a subtraction of the infrared emission recorded prior to the beginning of the processes from the infrared emission recorded during the course of the processes and wherein said library plate consists of a material having an infrared reflectivity close to the infrared reflectivity of a black body.--

--4. (Once Amended)

The method according to claim 1, wherein said catalyst library consists of catalyst components in the form of metal or silicon oxides and/or of mixed metal oxides or mixed metal oxides and silicon oxides, the precursors of which are arranged as aqueous or alcoholic solutions of silicon or metal compounds in the form of their alkoxy derivatives, mixed alkoxy derivatives, alkoxyoxo or acetylacetonate derivatives or in the form of their halides or carboxylates over the surface of the library plate, followed by drying and calcining. --

--7. (Once Amended)

The method according to claim 1, wherein said library plate

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cont.

consists of slate. --

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--8. (Twice Amended) The method according to Claim 1, 3 or 4, wherein said library plate is coated with a film having an infrared reflectivity close to the infrared reflectivity of a black body.--

--9. (Twice Amended) The method according to Claim 1, 3, 4 or 5, wherein the region of the surface of the library plate not occupied by catalysts or materials is coated with a non-wetting film.--

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--10. (Once Amended) The method according to claim 1, wherein said library plate contains reaction cavities comprising liquid reaction solutions with homogeneous catalysts.--

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--12. (Once Amended) The method according to claim 1 or 10, wherein the selectivity or the enantioselectivity of catalyzed reactions is determined on the library.--

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--13. (Twice Amended) The method according to Claim 1, 4, 5, 10 or 11, wherein the catalysts are within a reactor under reaction conditions and wherein changes in infrared emission are recorded by the externally provided infrared camera through an infrared-transparent window.--

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